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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=7; day=31; hr=11; min=35; sec=19; ms=457;]

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Application No: 10559406 Version No: 2.0

Input Set:

Output Set:

Started: 2008-06-25 11:36:45.948
Finished: 2008-06-25 11:36:47.026
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 78 ms
Total Warnings: 8
Total Errors: 1
No. of SeqIDs Defined: 15
Actual SeqID Count: 15

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
E 323	Invalid/missing amino acid numbering SEQID (11) POS (35)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)

Sequence Listing

<110> Universitaet Leipzig

<120> Method and Means for the Determination of Defined States or Modifications in the Mucus of the Uterus or in the Epithelium of Other Organs

<130> 401P07PCT-US

<140> 10559406

<141> 2008-06-25

<150> PCT/DE04/01210

<151> 2004-06-04

<150> DE10325639.3

<151> 2003-06-06

<150> DE10325638.5

<151> 2003-06-06

<160> 15

<210> 1

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope e-beta-9 (e-beta-hCG)

<400> 1

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<213> artificial sequence

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<223> Epitope beta-9 (t?hCG)

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Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Asp	Ser	Ser	Ser	Ser	Lys	Ala
1				5					10					15

<210> 3

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope e-beta-1 (e-beta-hCG)

<400> 3

Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
1 5 10 15

<210> 4

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope beta-1 (t-beta-hCG)

<400> 4

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
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<211> 861

<212> DNA

<213> homo sapiens

<220>

<223> beta-hCG beta-7 cDNA-Sequenz

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actgagtctc agaggtcact tcaccgtggg ctccgcctca tccttggcgc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgccccc cgaagggtta gtgtccagct cactccagca tcctacaacc tcctgggtggc 300
cttgacgccc ccacaaaccc gaggtataaa gccaggtaaa ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gatgcttcgg ccacggtgcc gcccacatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtgc atcacgtcga acaccaccat ctgtgccggc tactgcccc 540
ccatgacctg cgtgctgcag ggggtcctgc cggccctgcc tcaggtggtg tgcaactacc 600

gcgatgtgcg cttcgagtcc atccggctcc ctggctgccc gcgcggcgtg aaccccgtag 660
tctcctacgc cgtggctctc agctgtcaat gtgcactctg ccgccgcagc accactgact 720
gcggggggtcc caaggaccac cccttgacct gtgatgacct ccgcttcacg gcctcctctt 780
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ccccgatcct ccacacaataa a 861

<210> 6

<211> 861

<212> DNA

<213> homo sapiens

<220>

<223> beta-hCG beta-6 cDNA-Sequenz

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actgagtctc agaggtcact tcaccgtggg ctccgcctca tccttggcgc tagaccactg 180

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tctcgcccc cgaagggtta gtgtcgagct cactccagca tcctacaacc tcctgggtggc 300
cttgccgccc ccacaacccc gaggtatgaa gccagggtaca ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gccacttcgg ccacgggtgcc gcccacatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtgc atcacctgca acaccacat ctgtgccggc tactgcccc 540
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tctcctacgc cgtggctctc agctgtcaat gtgactctg ccgccgcagc accactgact 720
gcggggggtcc caaggaccac cccttgacct gtgatgacct ccgcttccag gcctcctctt 780
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<211> 861
<212> DNA
<213> homo sapiens
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actgagtctc agaggtcact tcaccgtggg ctccgcctca tccttgggyc tagaccactg 180
aggggagagg actggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgcccc cgaagggtta gtgtcsagct cactccagca tcctacaacc tcctgggtggc 300
cttgmccgccc ccacaamccc gaggtatraa gccagggtaca ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccargga gmyrcttcgg ccacgggtgcc gcccacatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtgc atcacctgca acaccacat ctgtgccggc tactgcccc 540
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gcggggggtcc caaggaccac cccttgacct gtgatgacct ccgcttccag gcctcctctt 780
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<210> 8
<211> 165
<212> PRT
<213> homo sapiens
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<400> 8

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Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Ser Met Gly
-20 -15 -10 -5

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Gly Thr Trp Ala Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile
-1 1 5 10

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Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 20 25
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 45 50 55 60
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
 65 70 75
 Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
 80 85 90
 Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
 95 100 105
 Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro
 110 115 120
 Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
 125 130 135 140
 Pro Ile Leu Pro Gln
 145

<210> 9
 <211> 165
 <212> PRT
 <213> homo sapiens
 <220>
 <223> beta-hCG beta-7 (prehormone)
 <400> 9

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Ser Met Gly
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 Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile
 -1 1 5 10
 Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 20 25
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 45 50 55 60
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val

	65		70		75
Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu					
	80		85		90
Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu					
	95		100		105
Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Ser Lys Ala Pro					
	110		115		120
Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr					
	125		130		135
					140
Pro Ile Leu Pro Gln					
	145				
<210> 10					
<211> 165					
<212> PRT					
<213> homo sapiens					
<220>					
<223> e-beta-hCG beta-6e (with Arg in Pos 2) (prehormone)					
<400> 10					
Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly					
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Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile					
	-1 1		5		10
Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr					
	15		20		25
Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val					
	30		35		40
Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg					
	45		50		55
					60
Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val					
	65		70		75
Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu					
	80		85		90
Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu					
	95		100		105
Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Ser Lys Ala Pro					
	110		115		120
Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr					
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Pro Ile Leu Pro Gln
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<212> PRT
<213> homo sapiens
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<223> beta-LH beta-4 (prehormone)
<400> 11

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Gly Ala Trp Ala Ser Arg Glu Pro Leu Arg Pro Trp Cys His Pro Ile
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Asn Ala Ile Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
30 35 40

Leu Gln Ala Val Leu Pro Pro Leu Pro Gln Val Val Cys Thr Tyr Arg
45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
65 70 75

Asp Pro Val Val Ser Phe Pro Val Ala Leu Ser Cys Arg Cys Ala Pro
80 85 90

Cys Arg Arg Ser Thr Ser Asp Cys Gly Gly Pro Lys Asp His Pro Leu
95 100 105

Thr Cys Asp His Pro Glu Leu Ser Gly Leu Leu Phe Leu
110 115 120

<210> 12
<211> 10
<212> PRT
<213> artificial sequence
>220>
<223> Peptide P1 (e-beta-hCG)
<400> 12

Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser
1 5 10

<210> 13
<211> 10
<212> PRT
<213> artificial sequence
<220>
<223> Peptide K1 (t-beta-hCG)
<400> 13

Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser
1 5 10

<210> 14
<211> 11
<212> PRT
<213> artificial sequence
<220>
<223> Peptide P2 (e-beta-hCG)
<400> 14

Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro
1 5 10

<210> 15
<211> 11
<212> PRT
<213> artificial sequence
<220>
<223> Peptide K2 (t-beta-hCG)
<400> 15

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro
1 5 10